



**PUMP TANK**  
Xerxes 10000 Gallon Fiberglass Underground Tank with  
Xerxes concrete deadmen, tiedowns, and turnbuckles  
Top of Riser = 818.5  
Bottom of tank = 807.0  
1) two 30" manways  
2) two service wall fittings  
3) two 30" fiberglass manway extension

**RECIRC-BLEND TANK**  
XERXES 22000 Gallon 10' diameter  
Fiberglass Underground Tank with  
with Xerxes concrete deadmen, tiedowns and turnbuckles  
including  
Top of riser = 818.5  
Tank bottom = 805.0  
1) four 30" manways  
2) three service wall fittings  
3) four 30" fiberglass manway extension

**NOTE:**  
Orenco inlet valve &  
testing assembly is  
internal to the AX 100 pod

- Note:**
- 1) One Orenco Advantex AX100 Media Filter has a loading rate of 2500 gal. per day with a peak loading rate of 5000 gal. per day.
  - 2) For the system proposed the six Ax100 media filters have a combined loading rate of 15000 gal per day with a max loading rate of 30000 gal per day

**SYSTEM ELEVATIONS:**

TOP OF AX100 POD = 818.50  
BOTTOM OF AX100 POD = 814.92  
MODEL ASD 40 CONTROL UNIT BASE = 819.0  
RECIRC-BLEND TANK TOP OF RISER = 818.5  
RECIRC-BLEND TANK BOTTOM OF TANK = 805.0  
RECIRC-BLEND TANK TOP OF TANK = 815.0  
TOP OF RSV4U = 812.96  
DISTRUBUTING VALVE = 815.6  
PUMP TANK TOP OF RISER = 818.5  
PUMP TANK BOTTOM OF TANK = 807.0

**TANK SIZE CALCULATIONS**

Number of lots = 44  
EDU flow = 250 gallons per lot  
Total flow = 250 x 44 = 11,000 gallons  
Recirculation tank = 2 times total flow = 22,000 gallons  
Use 22,000 gallon tank  
Pump tank = 3/4 day peak design flow between dose enable  
and high level = 8250 gallons  
Use 10,000 gallon tank



**ARTHUR R. OLSON & CO.**

965 WESTSHORE DRIVE  
FOX LAKE, IL. 60020  
(847) 651-1150

**FALCON CREST SUBDIVISION**

LAKE VILLA, ILLINOIS

**AX100 MEDIA FILTER LAYOUT &  
EFFLUENT LINE HYDRAULIC GRADE LINES**

DATE	BY	NO.	REVISION	SHEET
				7
				OF 11
8/10	A.R.O.		L.C.H.D.	
8/10	A.R.O.		L.C.H.D.	
DATE	BY	NO.	REVISION	DATE: 7/12/2006